Trend Macrolytics, LLC
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Data Insights: Covid-2019 Monitor

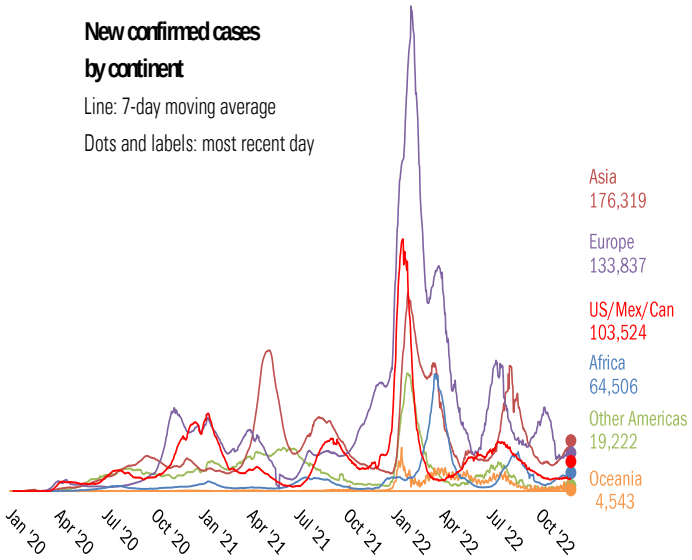
Thursday, December 1, 2022

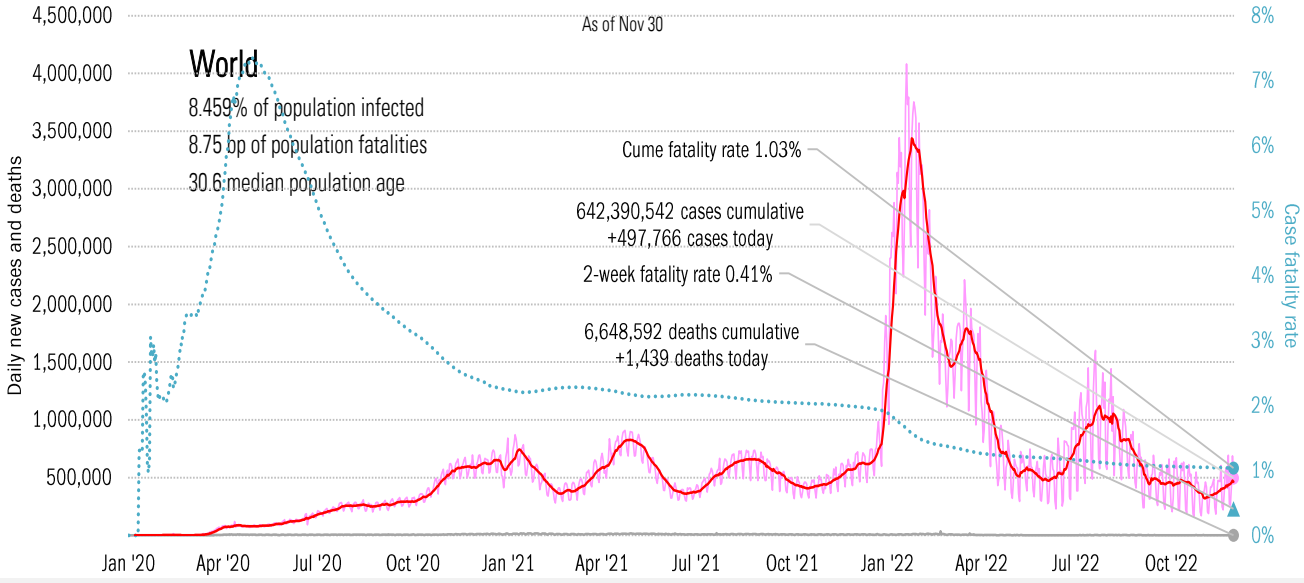
The global scorecard

Cases: 7-day average and daily Deaths: Daily

The worst ten countries

New cases		New Deaths	
Japan	138,396	United States	402
United States	68,272	Japan	210
France	67,200	Germany	152
Korea, South	57,079	Canada	79
Germany	36,115	France	75
Italy	32,732	Czechia	68
Brazil	19,524	Korea, South	62
Taiwan*	17,714	Russia	59
Austria	6,658	Hungary	42
Russia	6,043	Indonesia	41
	449,733		1,190





Source: Johns Hopkins, TrendMacro calculations

For more information contact us:
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The US scorecard

Cases: 7-day average and daily Deaths: Daily

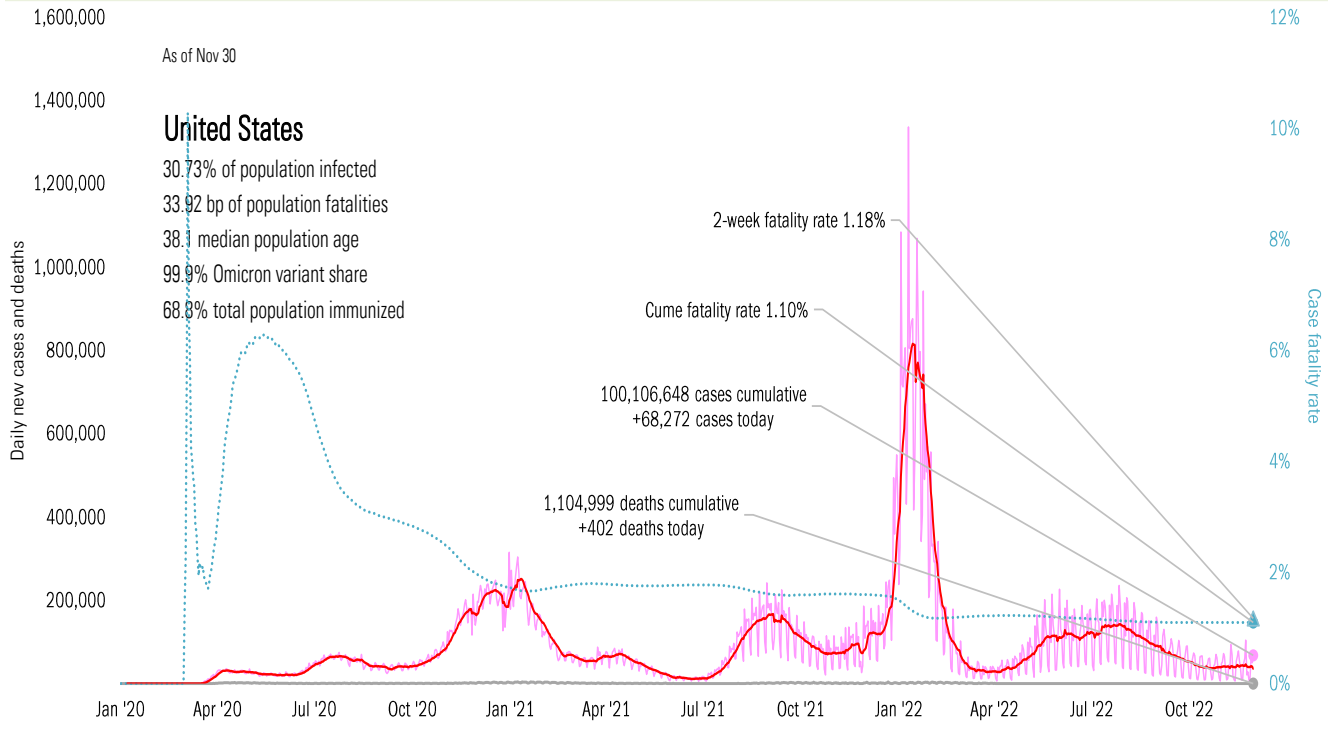
The ten worst US states

New cases		New deaths		New in hospital		Cume cases		Cume deaths		Cume in hospital		Hospital use		ICU use	
PA	10,213	FL	48	CA	717	CA	11,505,424	CA	97,529	TX	556,363	RI	92%	DE	116%
TX	7,907	NY	36	KY	276	TX	8,102,937	TX	91,419	CA	520,201	NH	88%	NH	88%
NY	6,923	VA	25	TX	325	FL	7,239,478	FL	82,875	FL	504,409	MA	87%	AL	86%
IL	5,723	IL	21	NY	437	NY	6,380,782	NY	73,983	NY	320,953	WA	87%	MA	86%
CA	4,735	UT	21	GA	140	IL	3,877,441	PA	48,387	GA	230,180	MN	87%	TX	85%
FL	3,355	NJ	19	IL	230	PA	3,360,797	GA	41,070	OH	228,138	MO	85%	OK	85%
NJ	3,009	PA	17	FL	247	NC	3,275,343	OH	40,466	PA	214,450	GA	85%	KY	85%
AZ	1,855	MI	16	IN	103	OH	3,227,759	IL	40,303	IL	196,335	WV	85%	NC	84%
VA	1,832	MA	16	AR	48	GA	2,943,519	MI	40,085	MI	170,419	CT	84%	GA	84%
CO	1,773	OH	15	AL	68	MI	2,938,443	NJ	35,129	KY	148,439	MD	84%	DC	84%
	47,325		233		2,591		52,851,923		591,246		3,089,887				
All states	68,272		402		5,274	All states	100,106,648		1,104,999		5,613,722	All states	70%		67%
Top ten	69%		58%		49%	Top ten	53%		55%		55%	Median	80%		78%

Some states not reporting

Five most improved US states

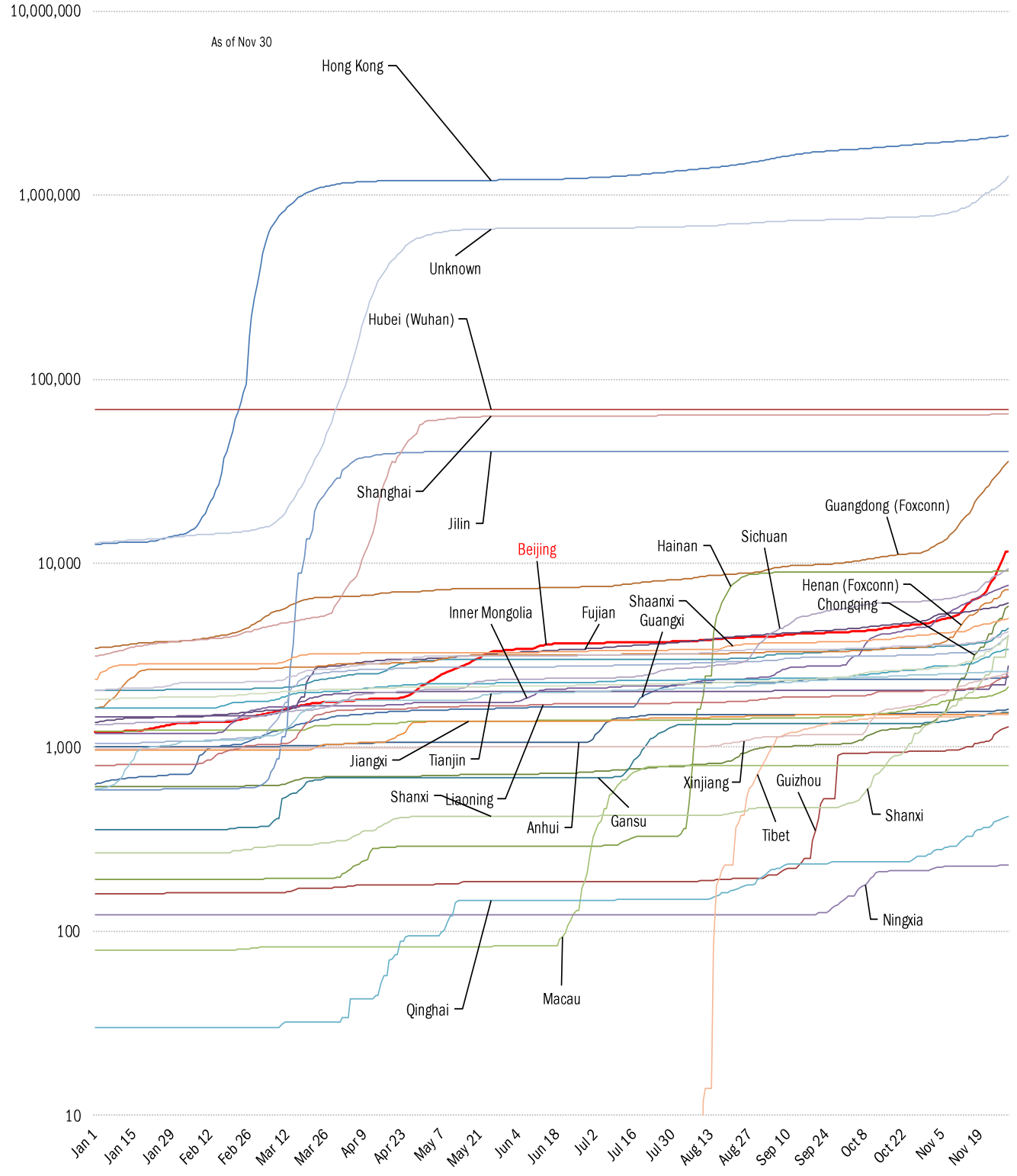
Fewer daily cases		Fewer new deaths		Fewer new hospitalizations	
MO	-384	NY	-40	PA	-50
AZ	-60	NV	-18	OH	-43
AK	0	MD	-13	NC	-29
AL	0	SD	-5	LA	-27
DC	0	AZ	-3	AZ	-23



Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

China provincial coronavirus case accelerometer… tracking the "zero Covid" curves

Cumulative reported cases this year, log scale: flat line indicates "zero Covid"



Source: Johns Hopkins, TrendMacro calculations

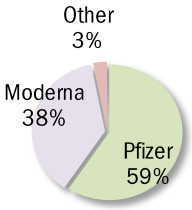
Rolling out the vaccines in the US and the world

Updates weekly on Friday

Administered	Cumulative				Today
Doses	667,039,757				+0.623 million
				Of which boosters:	+0.560 million
	One dose	% Pop	Immune	% pop	New immune today
Total population	275,804,550	83%	234,917,605	70%	+0.052 million
Age 12 to 17	18,368,587	73%	15,705,157	62%	+0.002 million
Age 18 to 64	183,557,662	90%	155,937,514	77%	+0.029 million
Age 65 and over	60,811,399	100%	53,206,659	97%	+0.011 million

Immunity	Full	Partial
US	68.6%	80.4%
UK	75.2%	79.7%
France	78.3%	80.5%
Spain	85.5%	86.9%
Germany	76.2%	77.7%
Italy	81.3%	86.1%
Australia	83.2%	85.7%
Israel	65.2%	71.1%
Canada	82.4%	88.8%
Japan	83.1%	84.2%
Africa	24.8%	31.0%
India	67.1%	72.5%
Brazil	80.2%	87.2%
China	89.2%	91.4%

Global data differs due to sources, timing



State
At least partial immunity as % population
Full immunity as % population

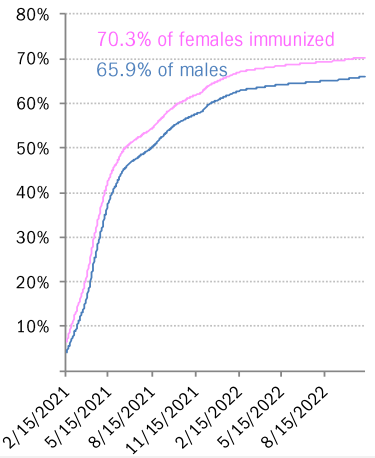
"Immunity" = two doses

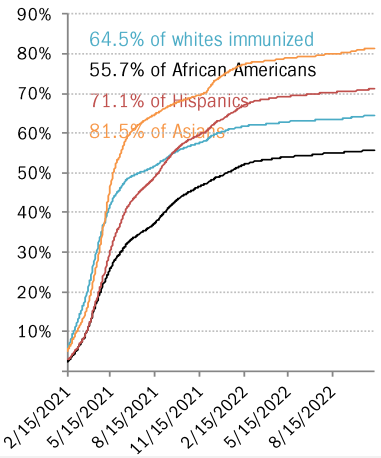
Best
Middle
Worst

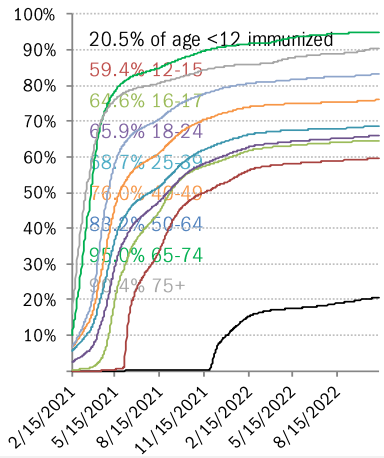
As of Nov 18

					WI					ME
					74.4%					95.0%
					67.7%					82.5%
WA	ID	MT	ND	MN	IL	MI		NY	VT	NH
84.4%	63.4%	67.7%	68.6%	78.0%	78.7%	69.0%		93.5%	95.0%	86.3%
75.3%	56.0%	58.7%	58.0%	71.5%	70.8%	61.9%		79.9%	84.6%	70.5%
OR	NV	WY	SD	IA	IN	OH	PA	NJ	MA	
80.7%	78.1%	60.4%	82.6%	70.1%	63.9%	65.2%	89.4%	93.7%	95.0%	
71.7%	63.0%	52.7%	65.5%	63.9%	57.4%	60.0%	72.3%	78.4%	83.1%	
CA	UT	CO	NE	MO	KY	WV	VA	MD	CT	RI
85.7%	74.5%	82.9%	72.7%	68.7%	68.3%	67.0%	89.9%	90.7%	95.0%	95.0%
74.6%	66.1%	72.9%	65.7%	58.5%	59.2%	59.4%	75.9%	78.9%	82.3%	86.8%
	AZ	NM	KS	AR	TN	NC	SC	DC	DE	
	76.5%	92.9%	75.4%	69.2%	64.0%	90.5%	70.3%	95.0%	86.6%	
	65.5%	74.4%	64.6%	56.4%	56.0%	66.0%	59.4%	84.1%	72.0%	
			OK	LA	MS	AL	GA			
			73.9%	62.5%	61.3%	64.5%	67.7%			
			59.9%	54.8%	53.4%	52.7%	56.7%			
HI			TX					FL		PR
90.6%			75.6%					81.8%		95.0%
80.9%			62.8%					68.9%		86.5%

The demographics of US vaccination

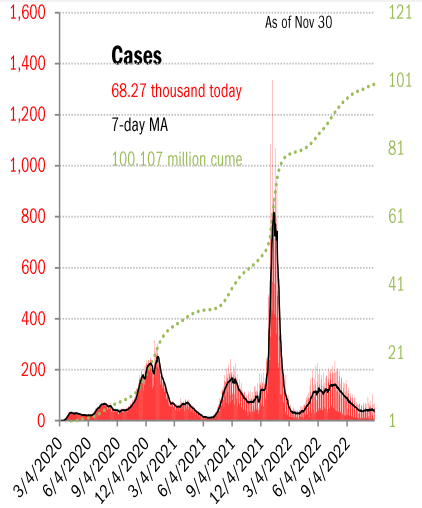


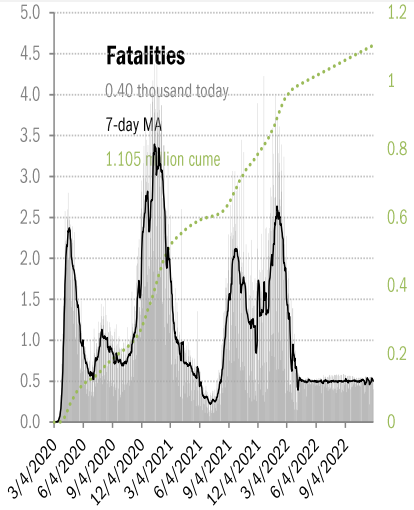


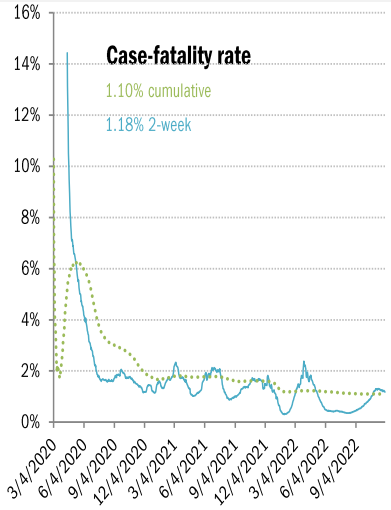


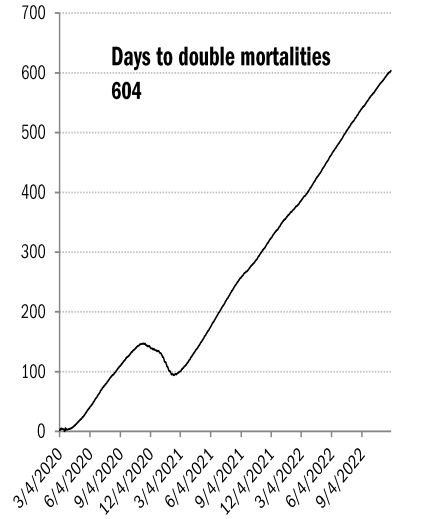
Source: CDC, CDC, Our World in Data, TrendMacro calculations

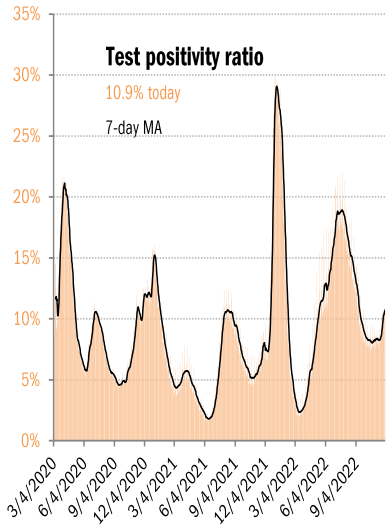
US deep-dive

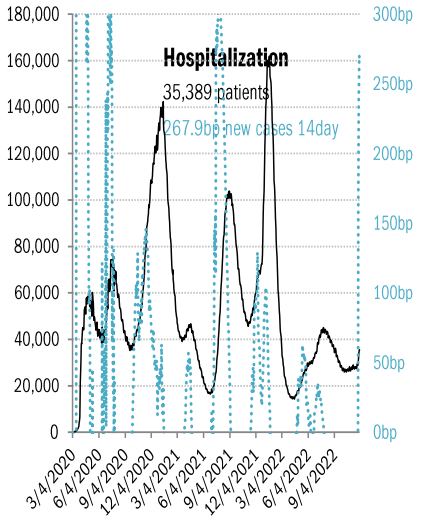


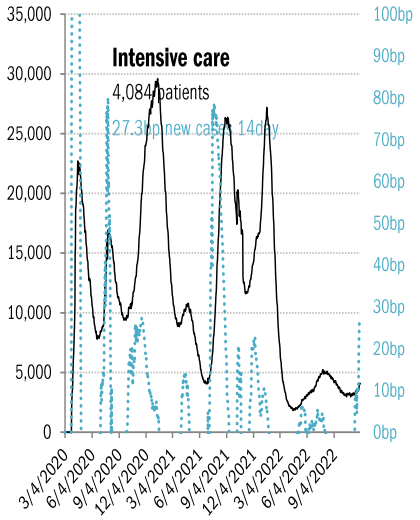


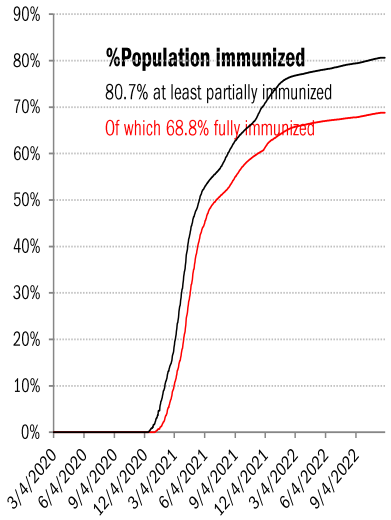












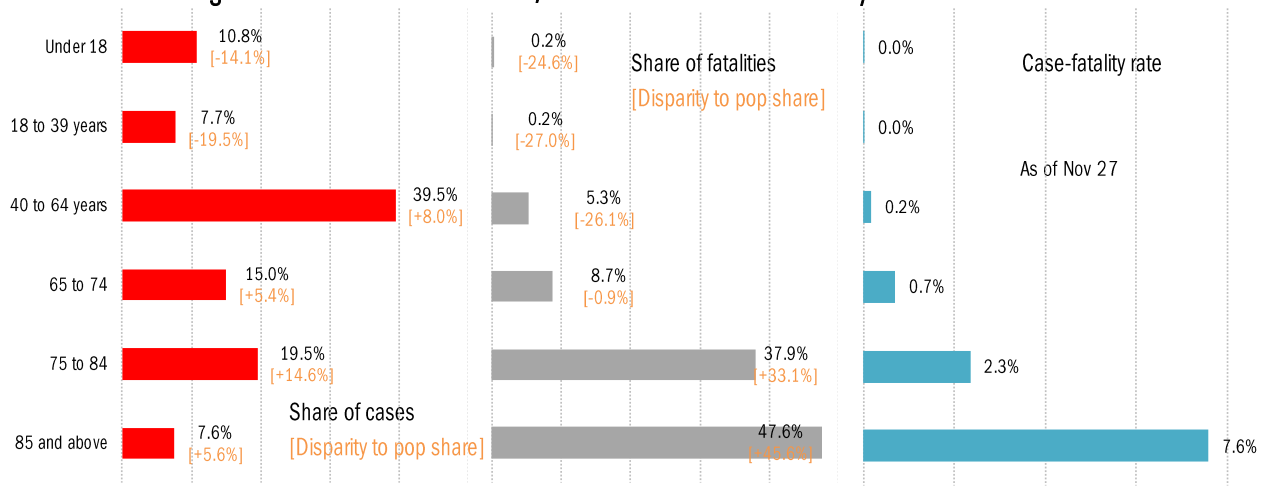
Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

US deep-dive: demographics of age, race and health

Updates weekly on Sunday, 1 week lag

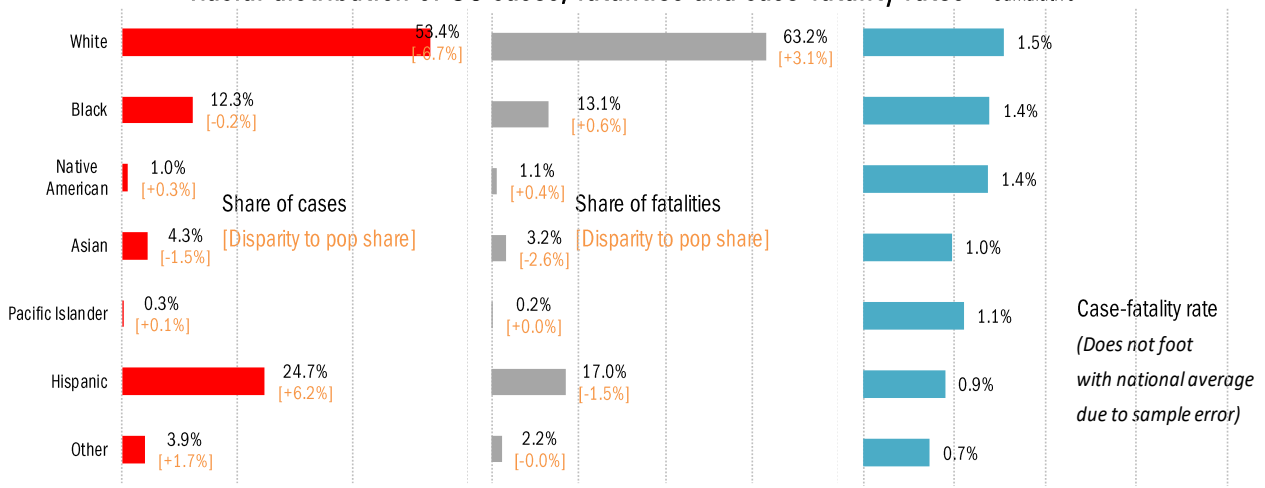
Age distribution of US cases, fatalities and case-fatality rates

Cumulative



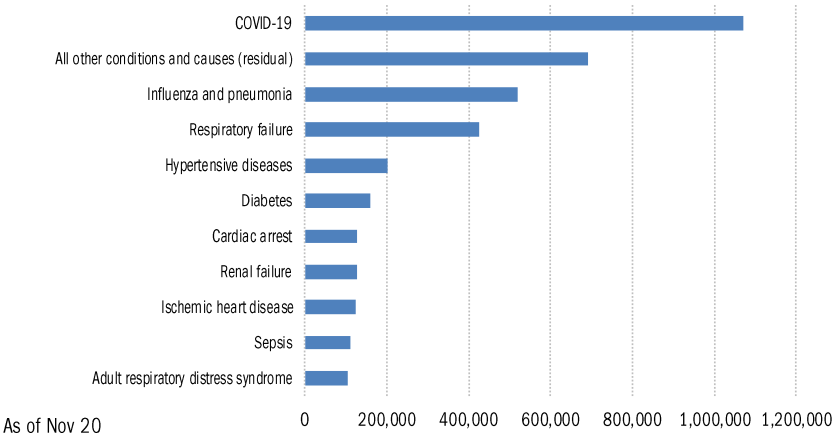
Racial distribution of US cases, fatalities and case-fatality rates

Cumulative



Comorbidities

Top-ten joint causes of Covid mortalities, cumulative



As of Nov 20

For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

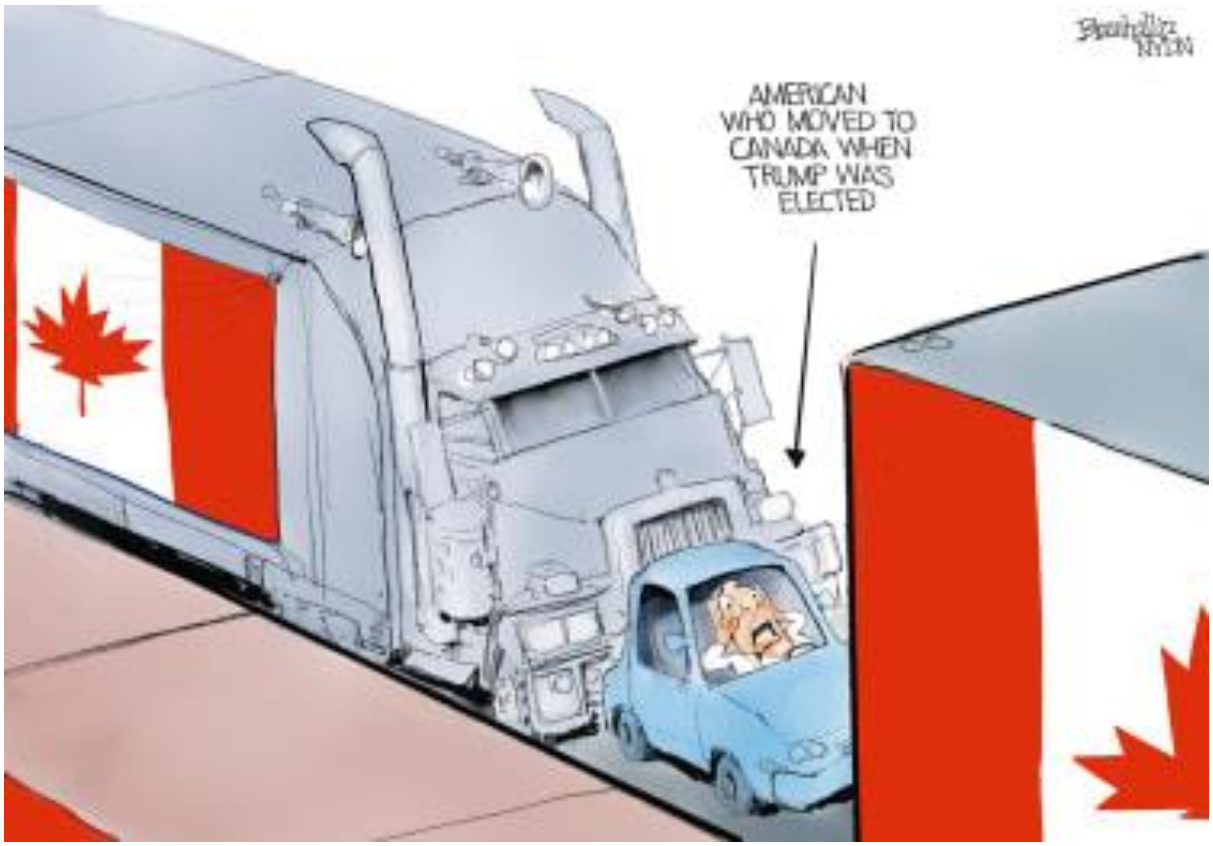
Recommended Reading

Happy Birthday, Omicron
Carl Zimmer
New York Times
November 26, 2022

Canada Examines Its Covid Protest Crackdown
Wall Street Journal
November 30, 2022

China Vows to Crack Down on 'Hostile Forces' as Police Deter Protests
Jacob Gu
Bloomberg
November 29, 2022

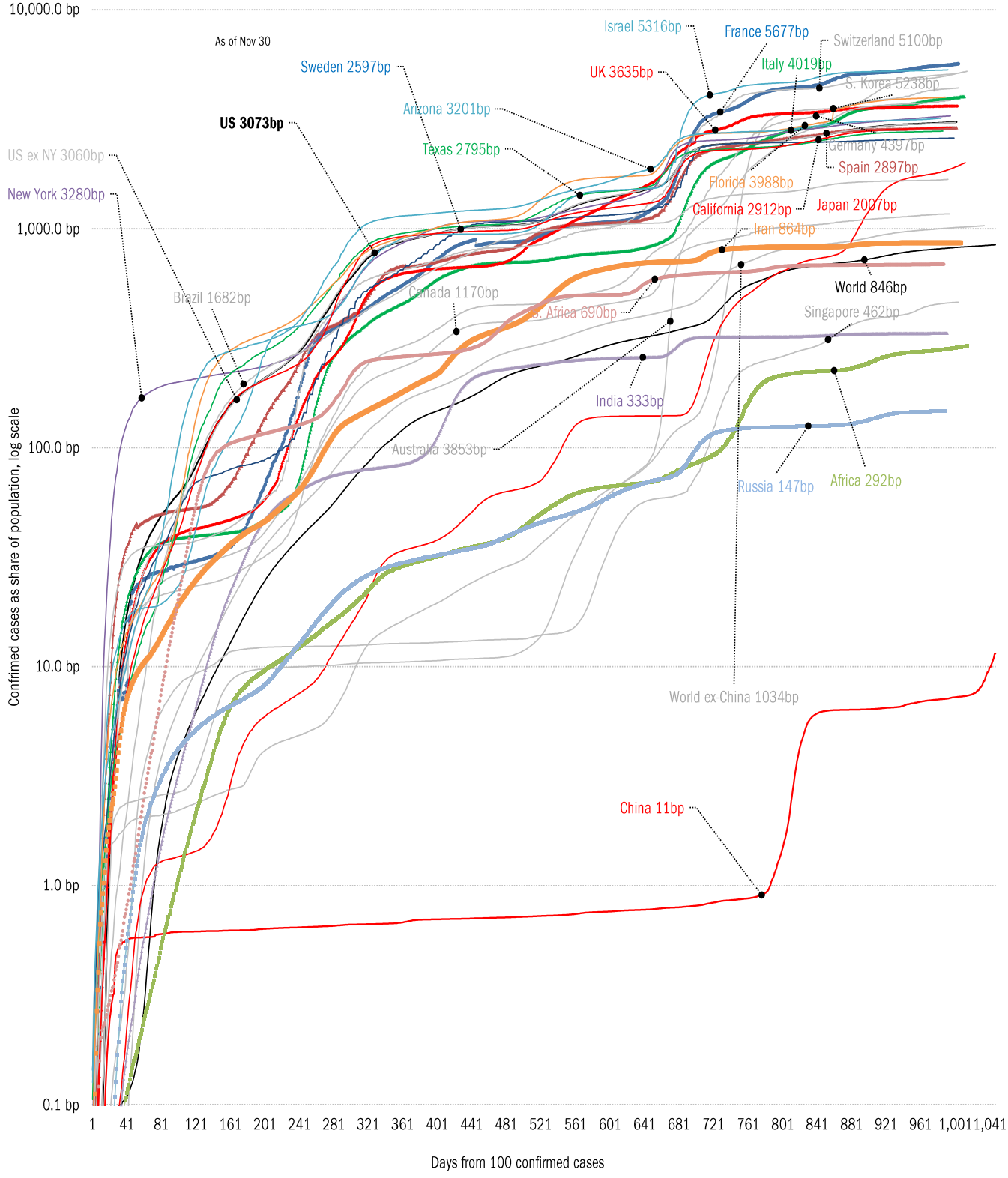
Meme of the Day



Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

The global coronavirus case accelerometer… tracking the world's infection curves

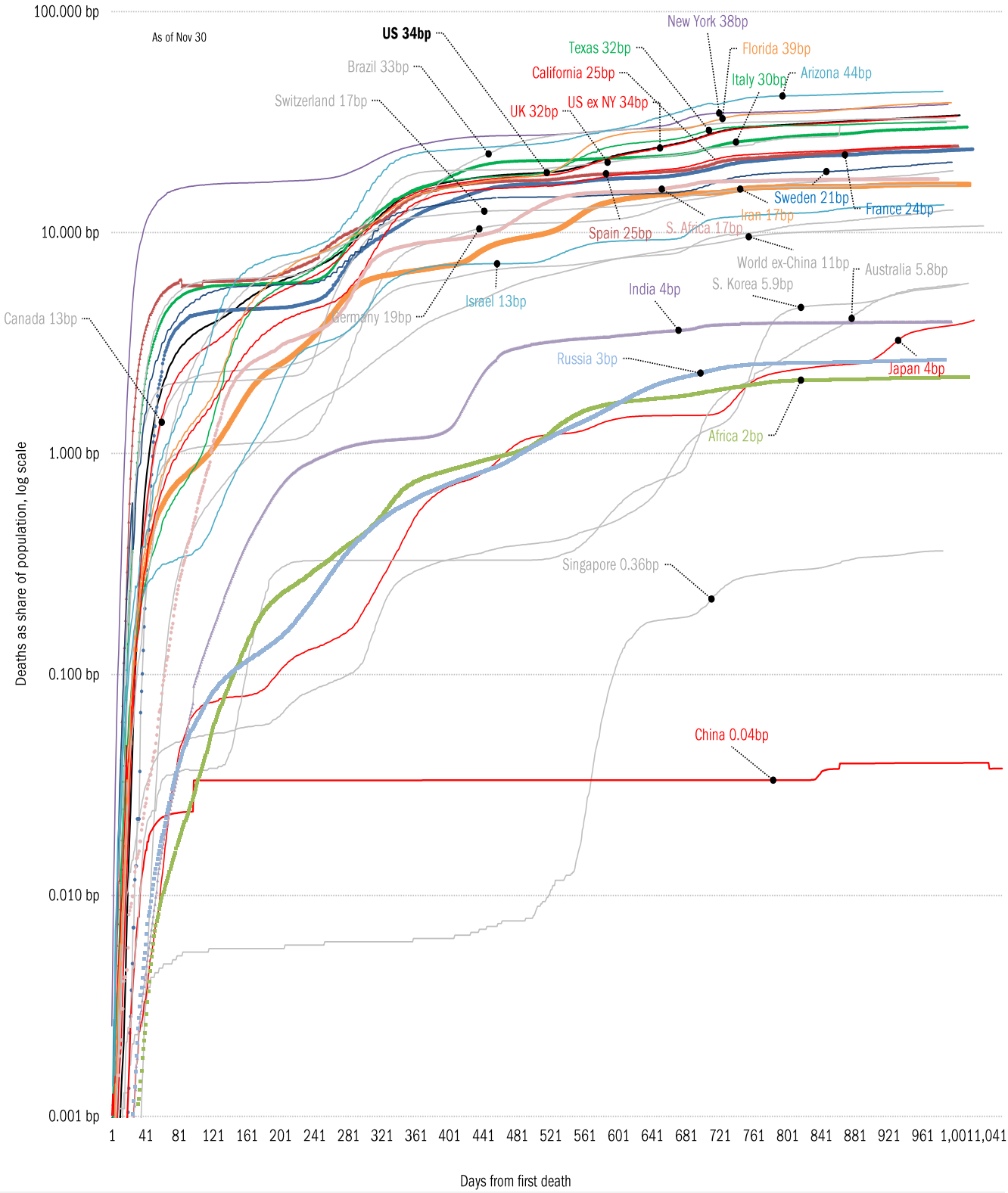
Share of infected population from first day with 100 confirmed cases, log scale



Source: Johns Hopkins, TrendMacro calculations

The global coronavirus mortality accelerometer … tracking the world's fatality curves

Share of deceased population from day of first fatality, log scale



Source: Johns Hopkins, TrendMacro calculations

Our most reliable evidence of the rate of spread of Covid-2019

Vertical: days to double deaths *Horizontal: days from first death*

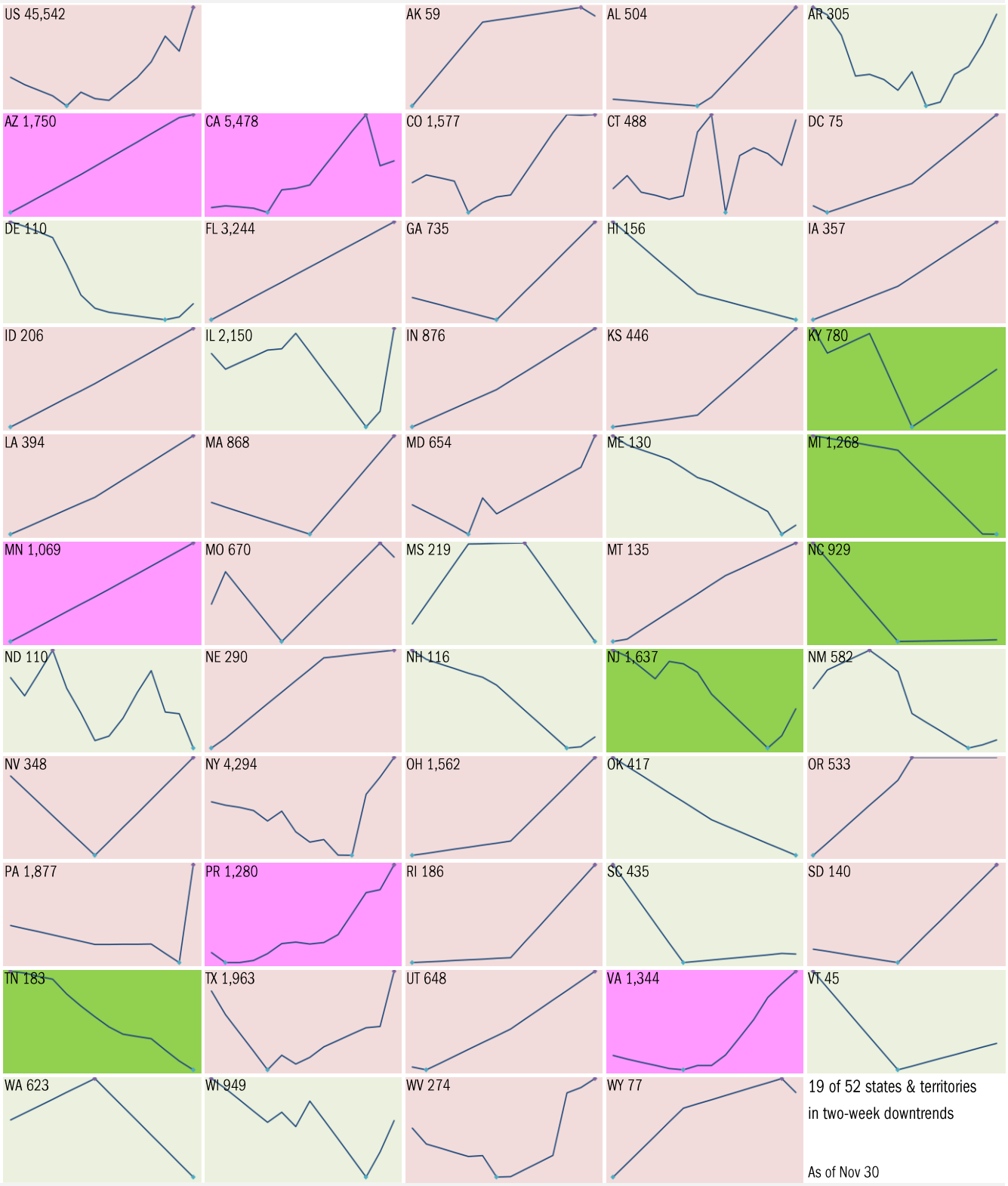
Higher is good *Flat* indicates exponential spread Declining indicates supra-exponential spread Rising indicates sub-exponential spread

Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **new cases**

14-day moving average, last 14 days *Most recent value displayed* • High • Low

Downward trajectory Five best Upward trajectory Five worst

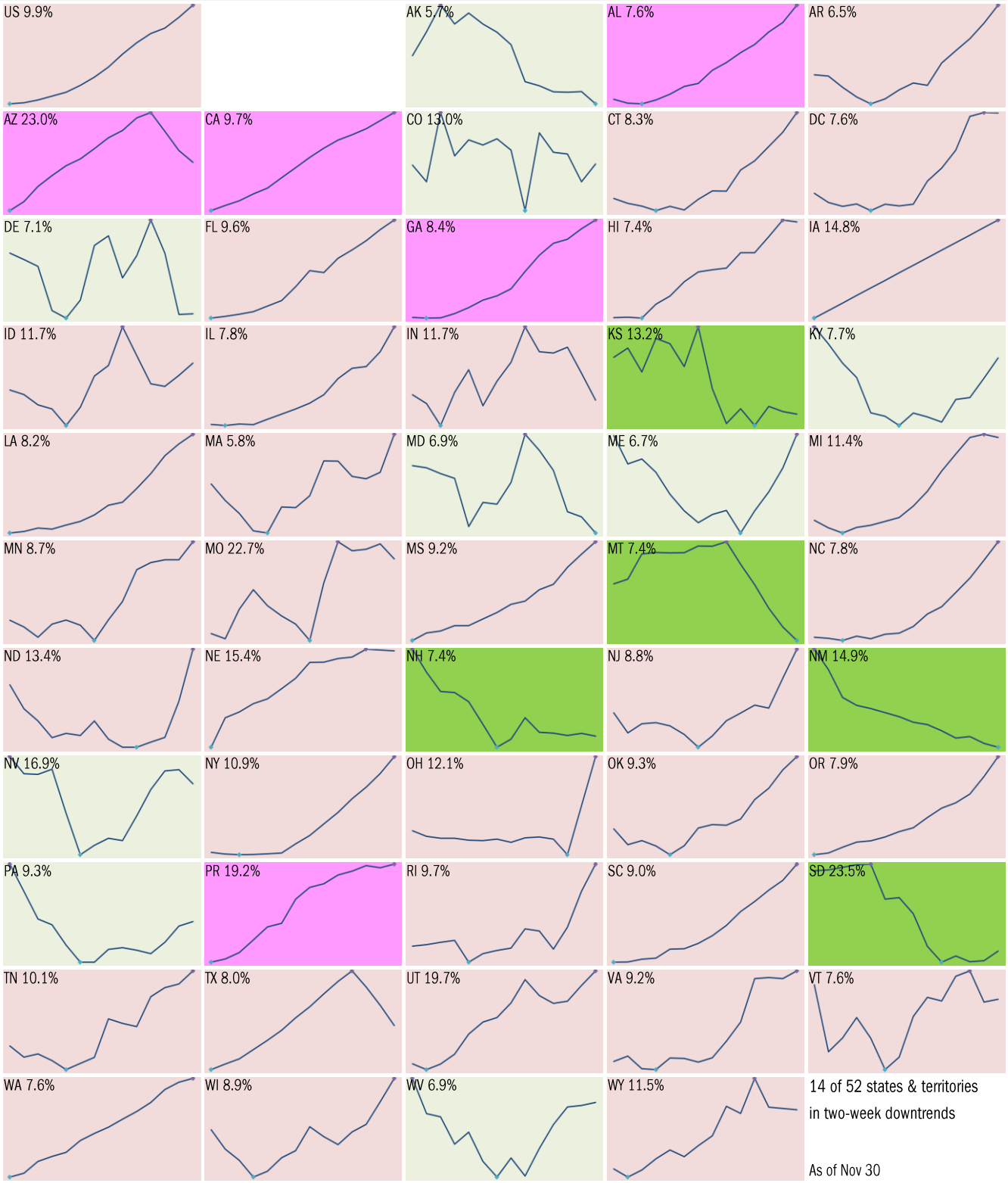


Source: Johns Hopkins, TrendMacro calculations

14-day trajectory in **test-positivity ratio**

14-day moving average, last 14 days *Most recent value displayed* • High • Low

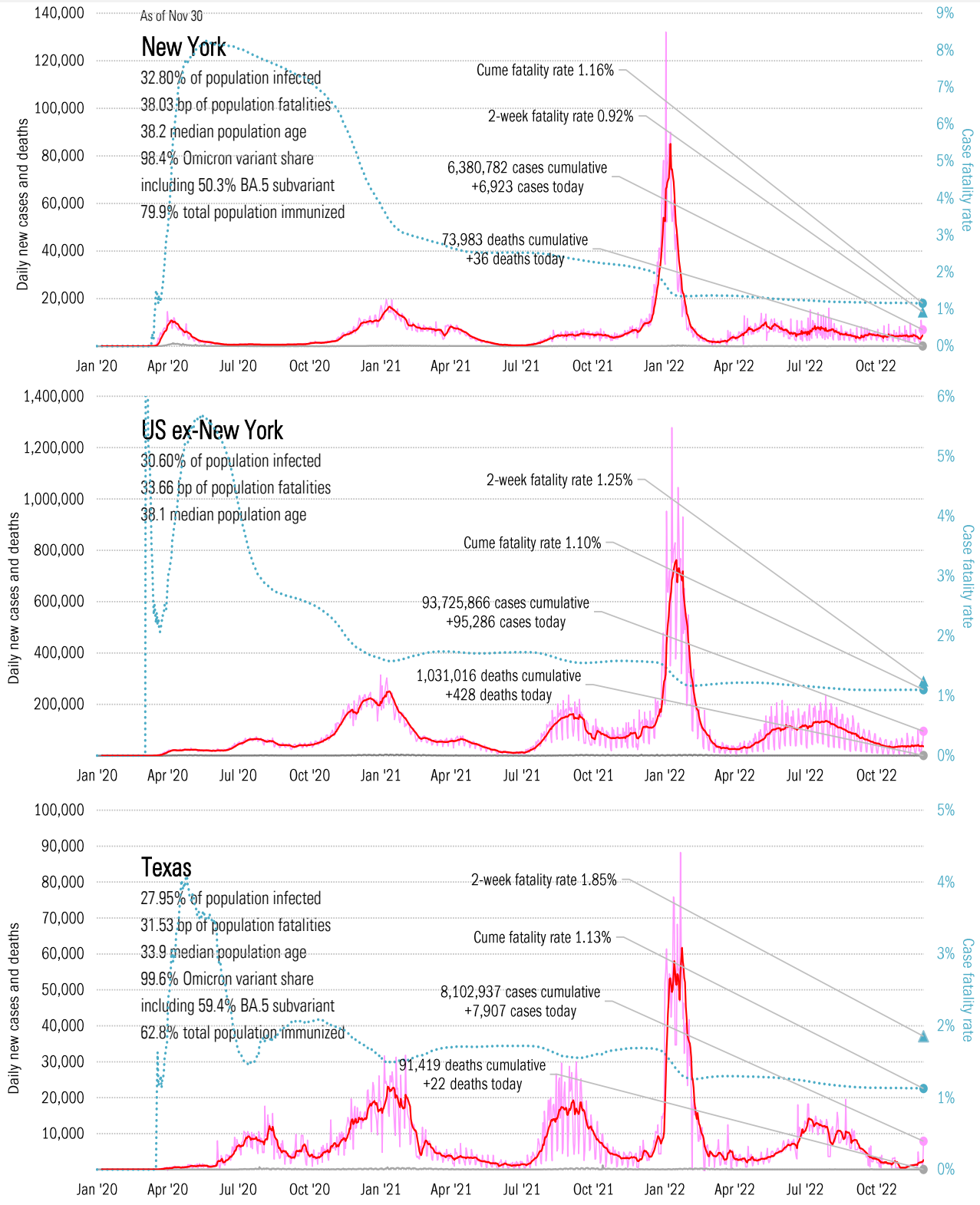
Downward trajectory | Five best | Upward trajectory | Five worst



Source: Covid Act Now, TrendMacro calculations

From Ground Zero to the Rio Grande

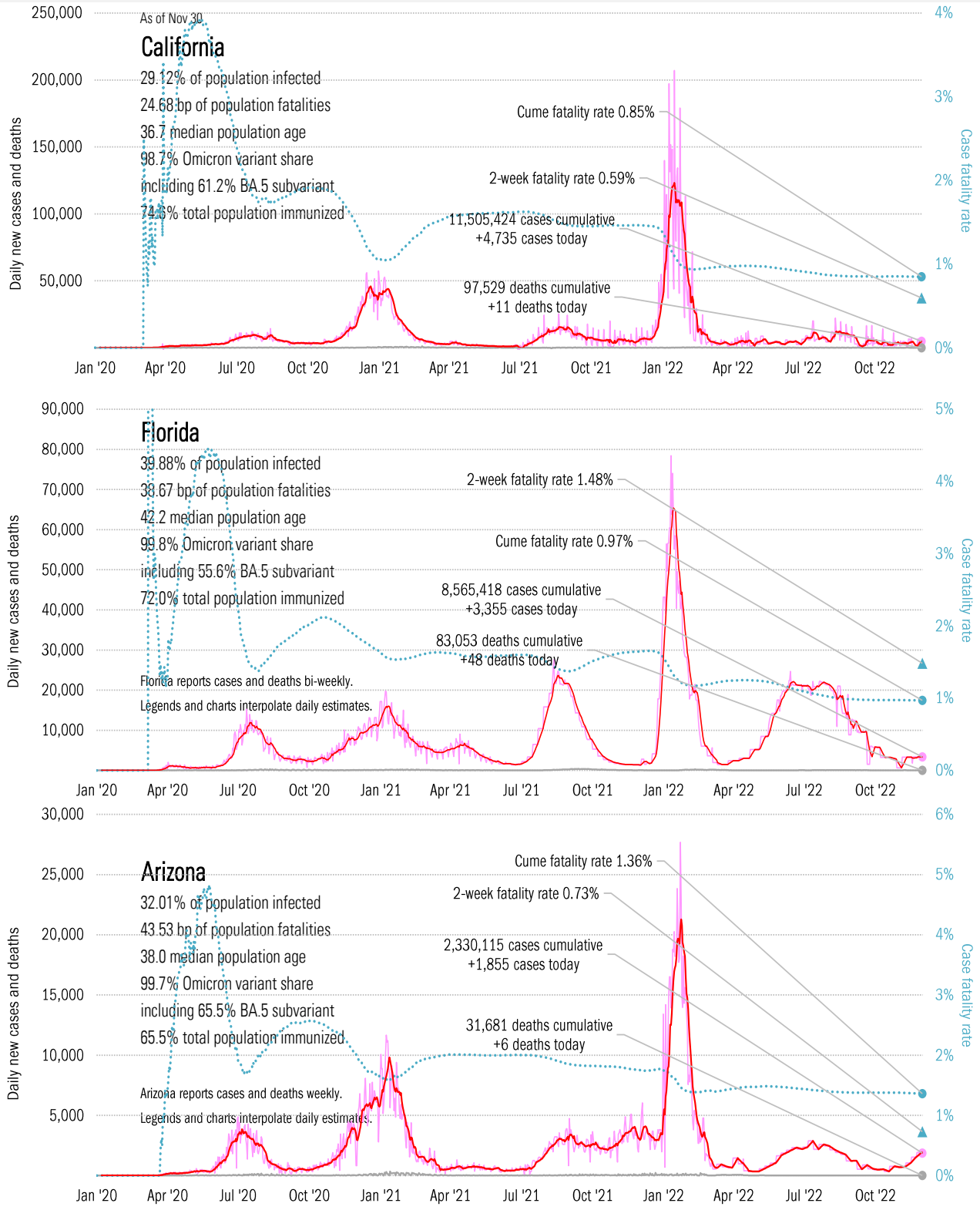
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

The sun-belt hot-spot states

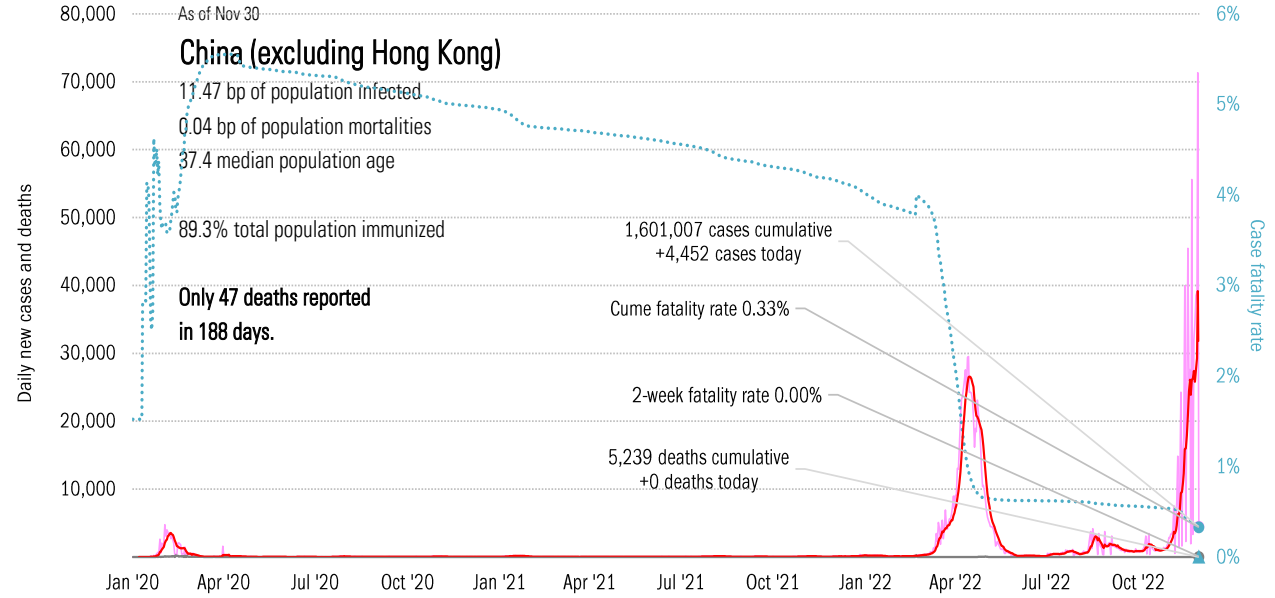
Cases: 7-day average and daily Deaths: Daily

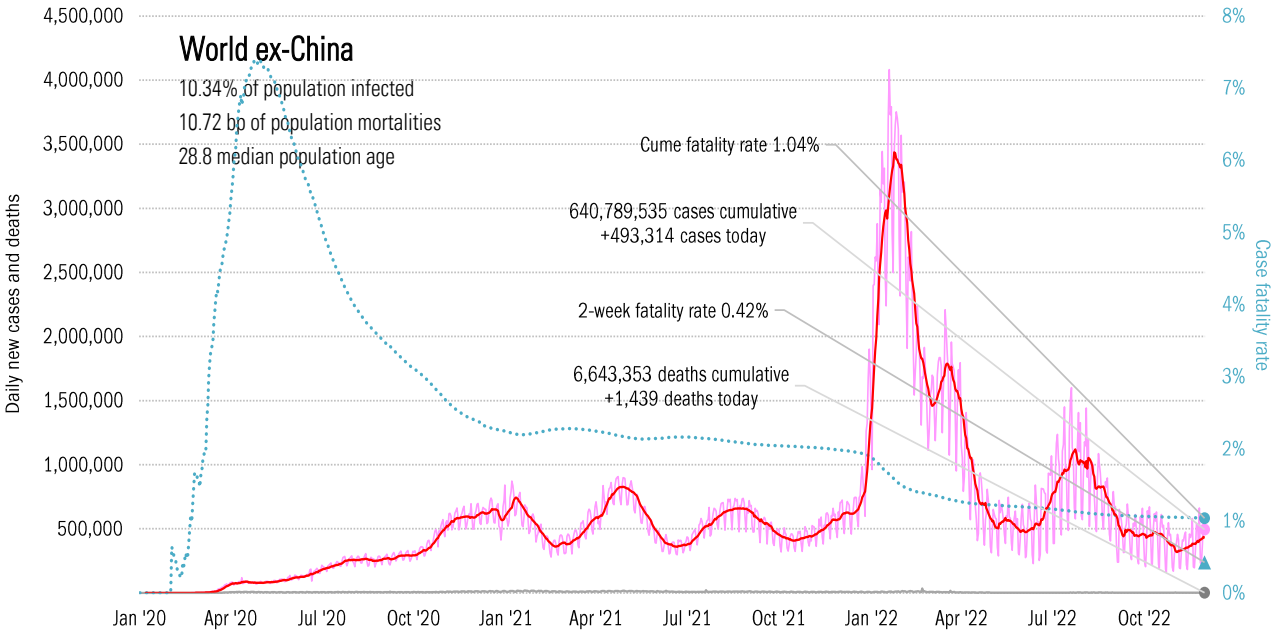


Source: Johns Hopkins, TrendMacro calculations

Patient zero… and then everyone else

Cases: 7-day average and daily Deaths: Daily

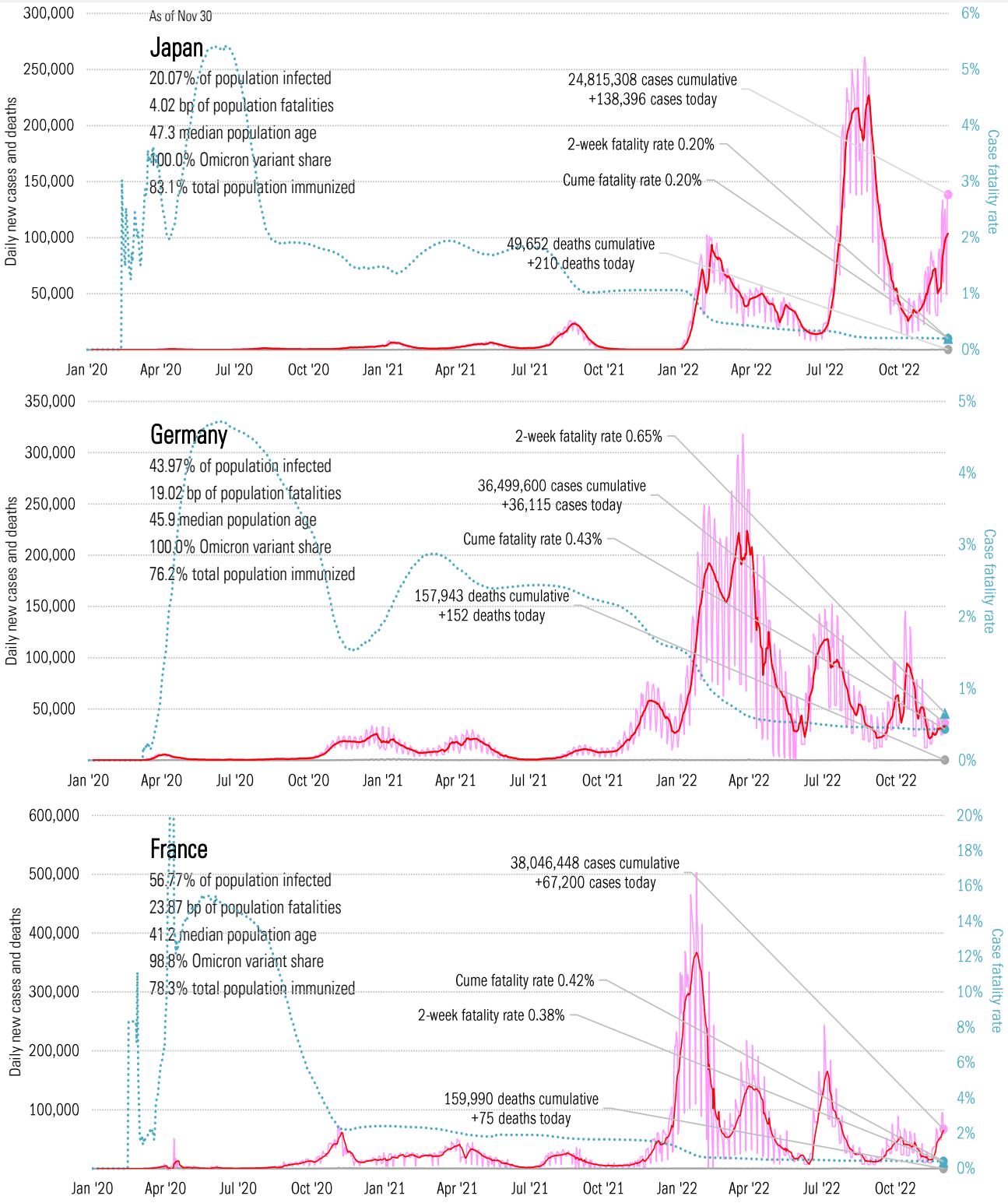




Source: Johns Hopkins, TrendMacro calculations

Impact in the largest economies

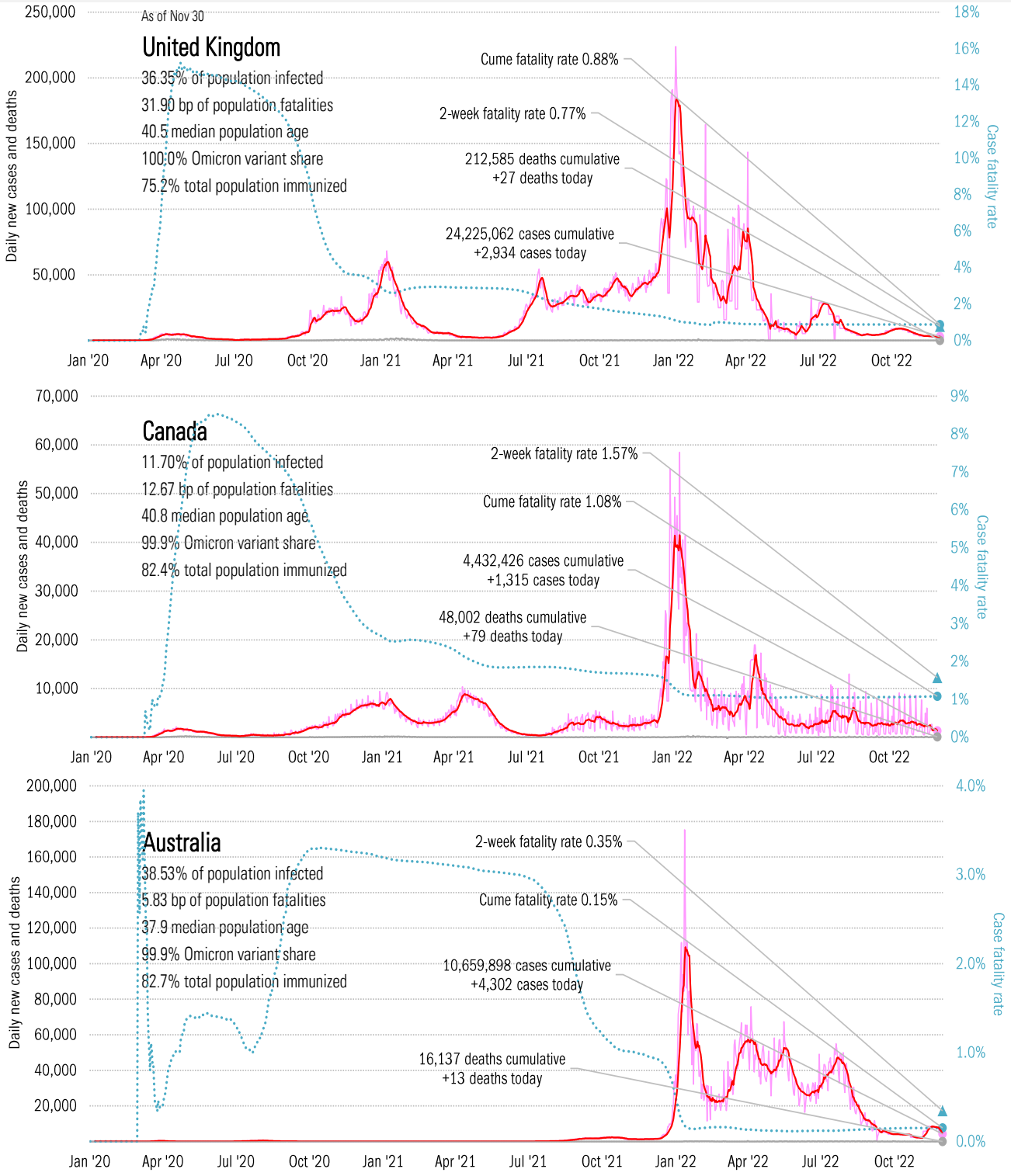
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in The Anglosphere

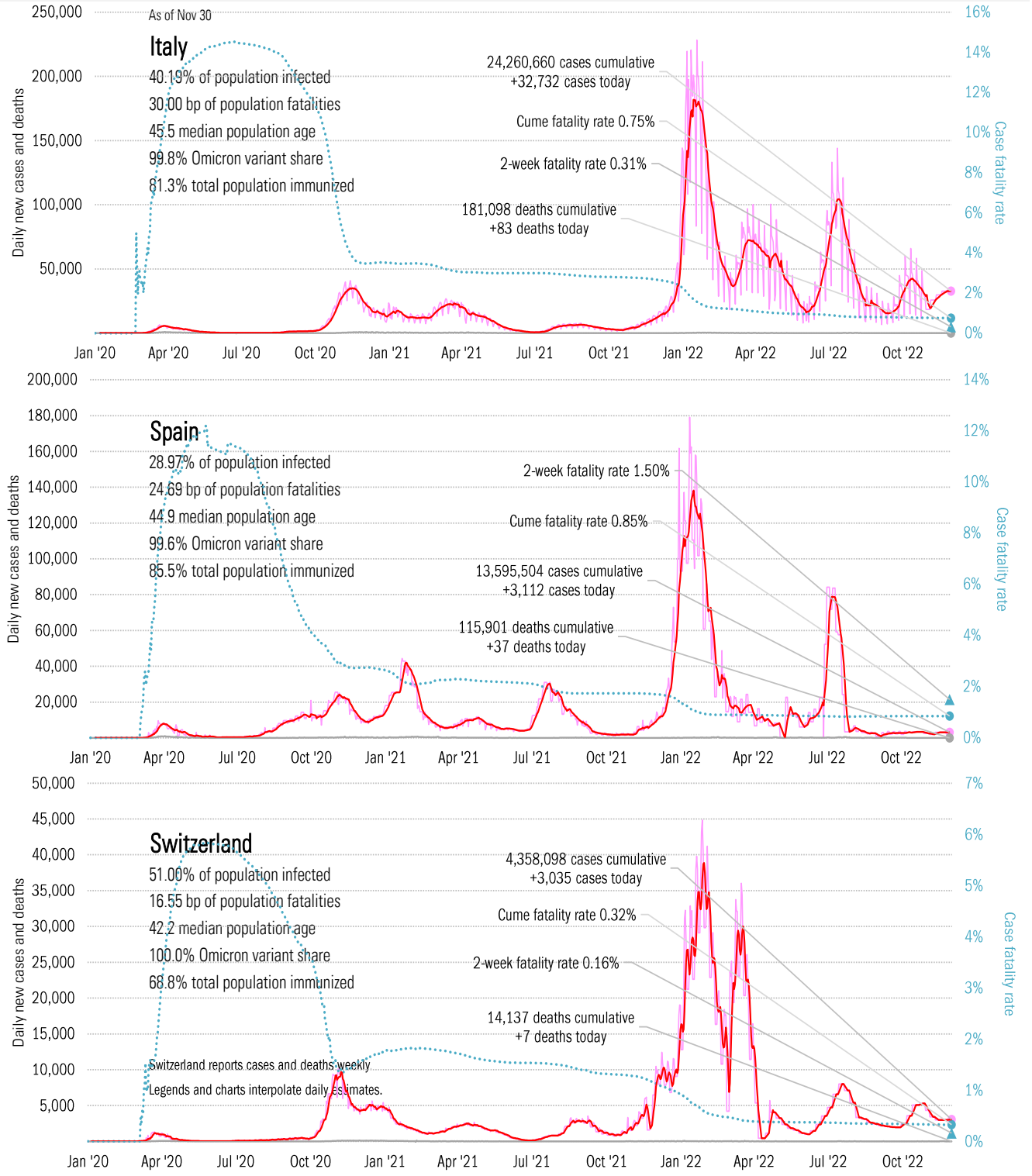
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in continental Europe

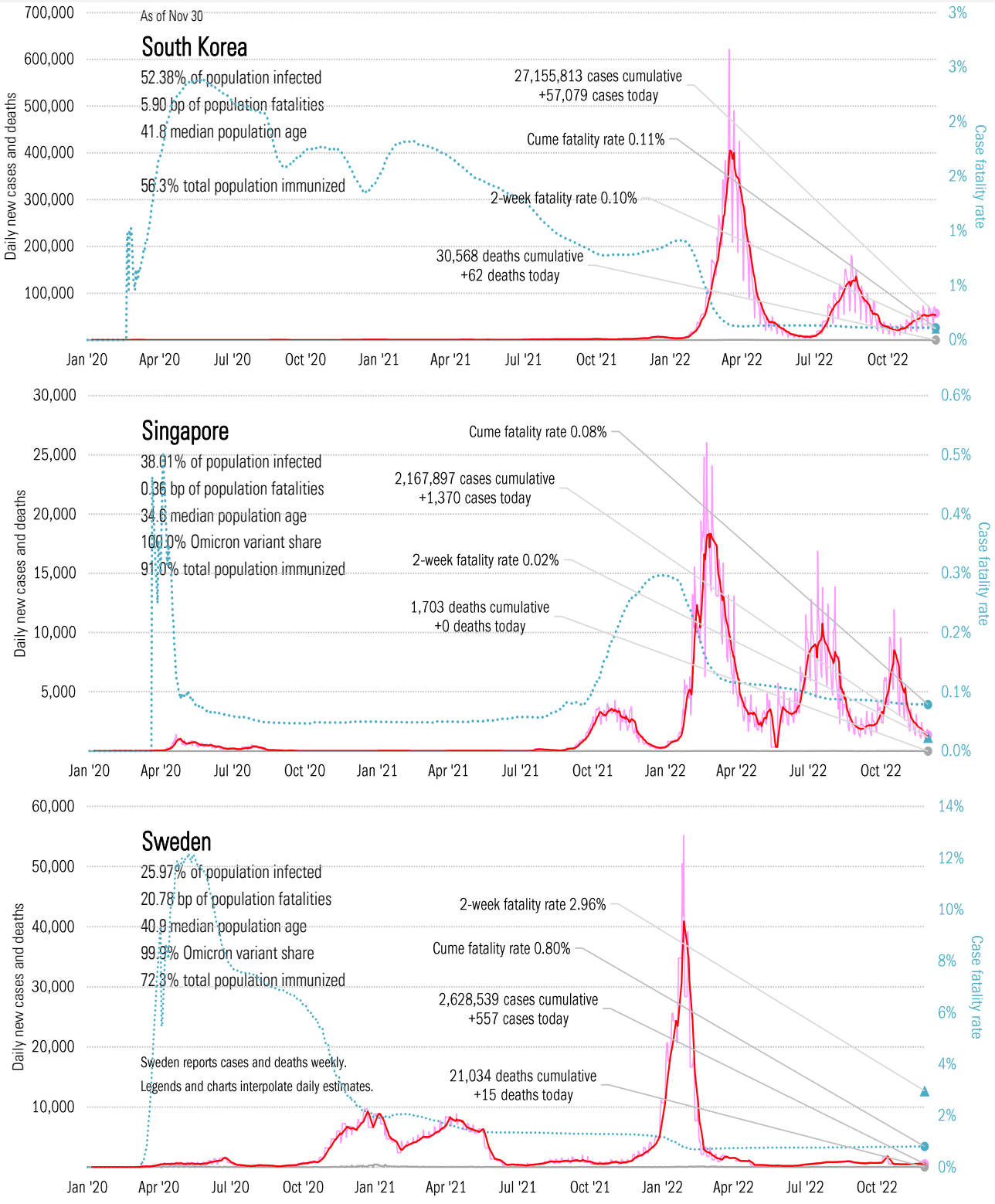
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in other hot-spots

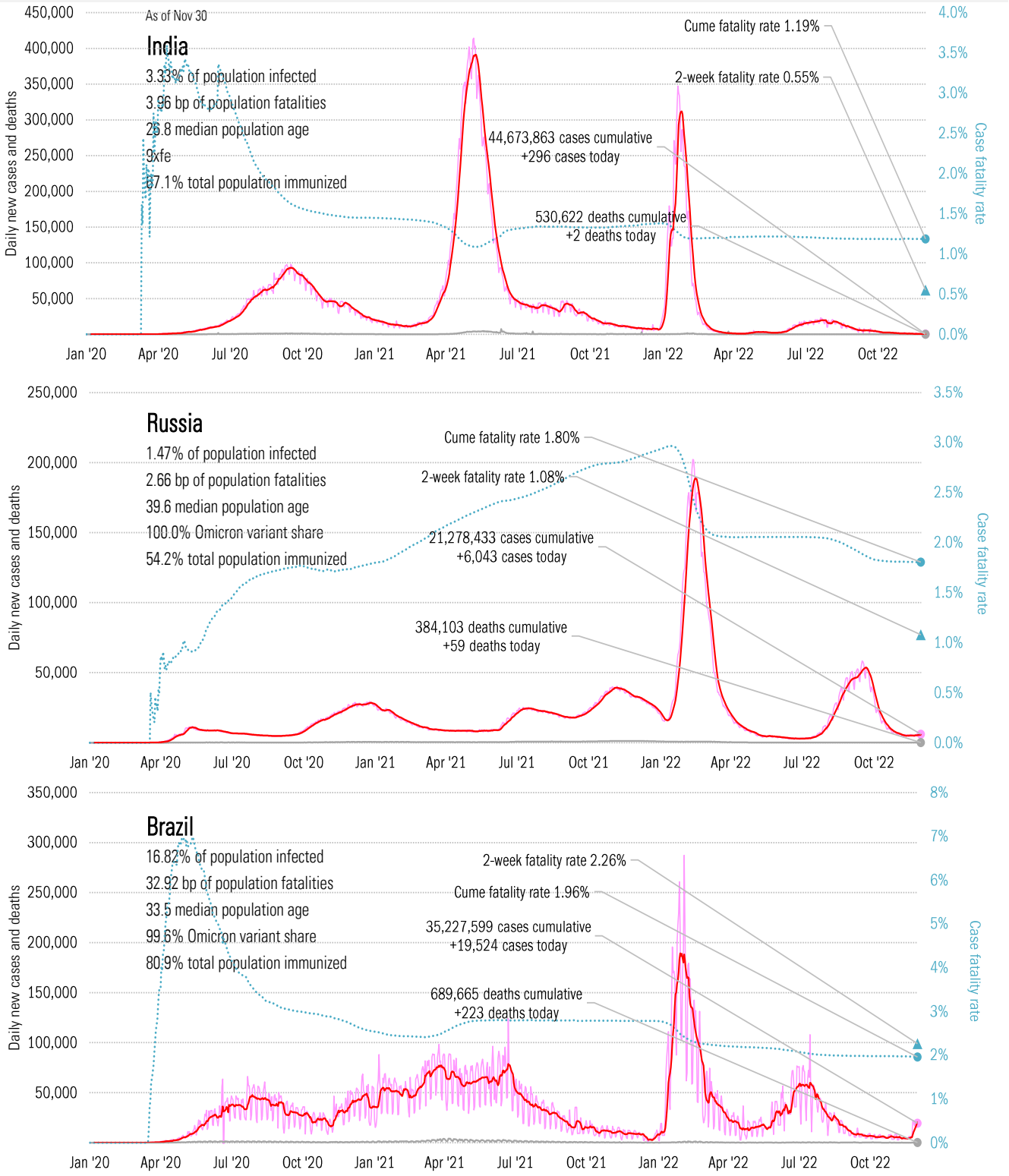
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the BRICs ex-China

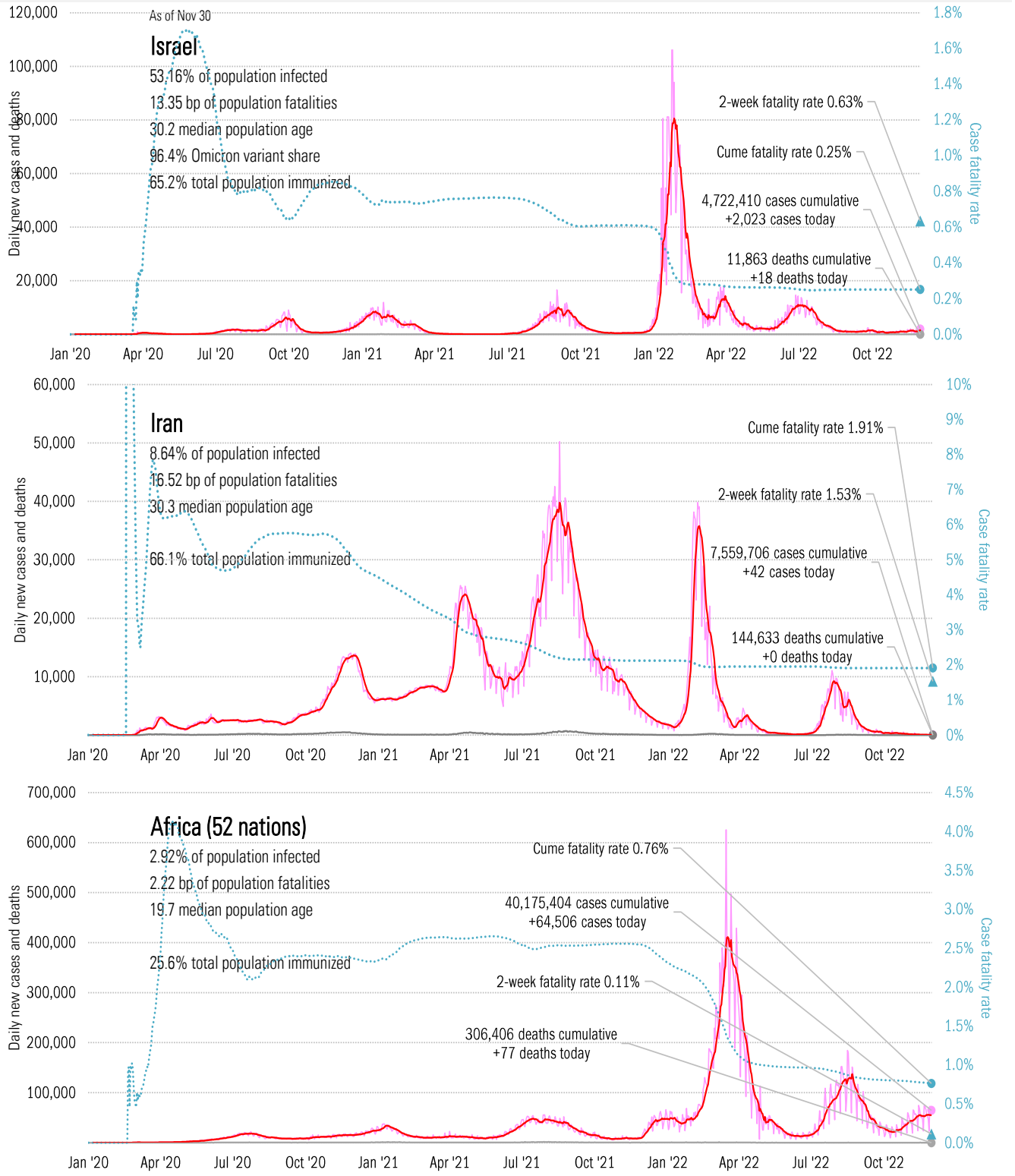
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in the Middle East and Africa

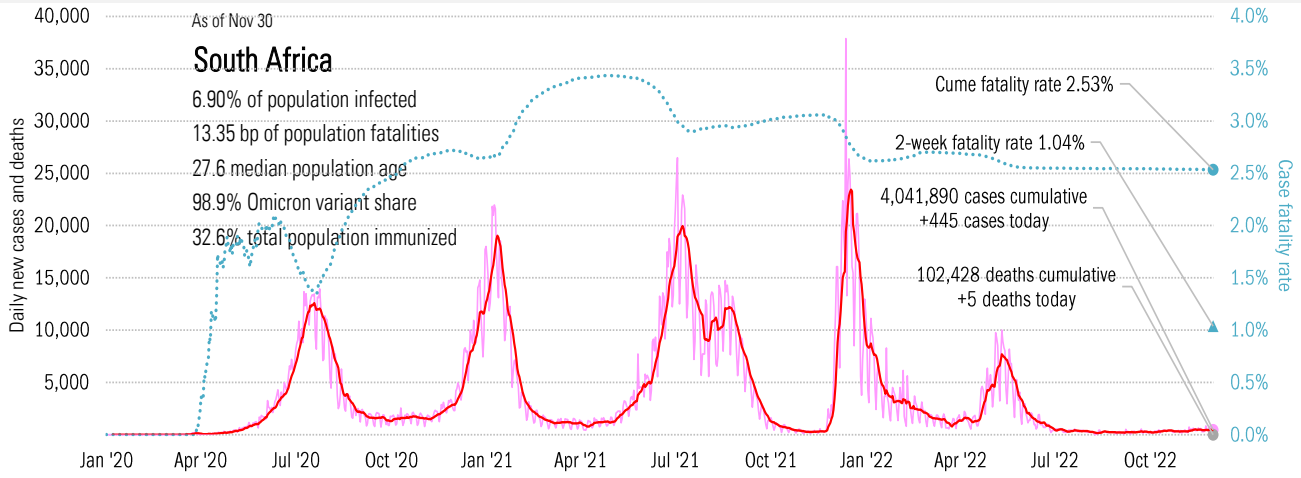
Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, TrendMacro calculations

Impact in Africa, continued

Cases: 7-day average and daily Deaths: Daily



Source: Johns Hopkins, Trend Macro calculations